

**10 ME 31 P MACHINE TOOLS LAB**  
**III B.Tech I Semester**

*(with effect from the academic year 2012-2013)*

*Periods/week: 3*  
*University Exam :3 Hrs*

*Credits: 2*  
*Sessional Marks: 40*  
*End Examination Marks: 60*

*(Any **Eight** of the following experiments will be given)*

List of Experiments:

1. Force Measurement on Lathe.
2. Power Measurement on Lathe.
3. Production of Single point cutting tool using tool and cutter grinder.
4. Differential Indexing.
5. Fit Exercise on Capstan Lathe.
6. Alignment Test on Lathe.
7. Thrust and Torque Measurement in Drilling Operation.
8. Study of tool wear (flank wear)
9. Study of Weld Bead generator in Arc.
10. Study of Impact strength tests on Welding joints.
11. Study of Metallurgical specimens using metallurgical microscope
12. Study on press working
13. CNC part programming